

Claims

1. A thermoforming mold having a surface roughness (Ra) of not more than  $0.1\mu\text{m}$ .
2. A thermoformed article comprising a crystalline olefin resin, which article has a surface roughness (Ra) of not more than  $3\mu\text{m}$ .
3. The thermoformed article according to Claim 2, wherein the olefin resin contains a propylene homopolymer.
4. The thermoformed article according to Claim 2, wherein the olefin resin contains a propylene homopolymer having an  $\alpha$ -methyl pentad % of not less than 0.95.
5. The thermoformed article according to Claim 2, wherein the thermoformed article is a sheet having a thickness of from 50 to  $700\mu\text{m}$ .
6. The thermoformed article according to Claim 2, wherein the thermoformed article has a total haze of not more than 5% and an inner haze of not more than 3%.
7. A process for producing a thermoformed article, which comprises the steps of:
- (i) heating and softening a crystalline olefin resin to obtain a sheet thereof; and

(ii) thermoforming the sheet with a thermoforming mold having a surface roughness (Ra) of not more than  $0.1\mu\text{m}$  to obtain a thermoformed article having a surface roughness (Ra) of not more than  $3\mu\text{m}$ .

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8. The process for producing a thermoformed article according to Claim 7, wherein the olefin resin contains a propylene homopolymer.

10 9. The process for producing a thermoformed article according to Claim 7, wherein the olefin resin contains a propylene homopolymer having an mmmm pentad % of not less than 0.95.

15 10. The process for producing a thermoformed article according to Claim 7, wherein the thermoformed article is a sheet having a thickness of from 50 to  $700\mu\text{m}$ .

20 11. The process for producing a thermoformed article according to Claim 7, wherein the thermoformed article has a total haze of not more than 5% and an inner haze of not more than 3%.

25 12. A laminated molding article, which comprises:  
(i) a thermoformed article containing a crystalline olefin resin, and having a surface roughness (Ra) of not more than  $3\mu\text{m}$ ; and

(ii) a substrate containing a crystalline olefin resin.

13. The laminated molding article according to Claim 12,  
wherein the olefin resin contains a propylene homopolymer.

5 14. The laminated molding article according to Claim 12,  
wherein the olefin resin contains a propylene homopolymer  
having an mmmm pentad % of not less than 0.95.

15. The laminated molding article according to Claim 12,  
10 wherein the thermoformed article is a sheet having a thickness  
of from 50 to 700  $\mu\text{m}$ .

16. The laminated molding article according to Claim 12,  
wherein the thermoformed article has a total haze of not more  
15 than 5% and an inner haze of not more than 3%.

17. The laminated molding article according to Claim 12,  
wherein the laminated molding article is a car part.

20 18. The laminated molding article according to Claim 12,  
wherein the laminated molding article is a center cluster.

19. A process for producing a laminated molding article,  
which comprises the steps of:

25 (i) heating and softening a crystalline olefin resin  
to obtain a sheet thereof;

(ii) thermoforming the sheet with a thermoforming mold  
having a surface roughness (Ra) of not more than 0.1  $\mu\text{m}$  to

obtain a thermoformed article having a surface roughness (Ra) of not more than 3  $\mu$ m;

(iii) setting the thermoformed article on a cavity side of a mold; and

5 (iv) injecting a molten crystalline olefin resin into the mold to obtain a laminated molding article, which contains the injected resin as a substrate and the thermoformed article bonded with the substrate.

10 20. The process for producing a laminated molding article according to Claim 19, wherein the olefin resin contains a propylene homopolymer.

21. The process for producing a laminated molding article  
15 according to Claim 19, wherein the olefin resin contains a propylene homopolymer having an mmmm pentad % of not less than 0.95.

22. The process for producing a laminated molding article  
20 according to Claim 19, wherein the thermoformed article is a sheet having a thickness of from 50 to 700  $\mu$ m.

23. The process for producing a laminated molding article according to Claim 19, wherein the thermoformed article has  
25 a total haze of not more than 5% and an inner haze of not more than 3%.

24. The process for producing a laminated molding article

according to Claim 19, wherein the laminated molding article  
is a car part.

25. The process for producing a laminated molding article  
5 according to Claim 19, wherein the laminated molding article  
is a center cluster.